









The flight heritage of the SS-19 comprises more than 150 flights in the past 20 years. Rockot launches began in the early nineties when three Rockot-K launch vehicles successfully deployed Russian satellites. Eurockot has performed ten commercial missions for international customers since May 2000 with the Rockot-KM. The otherwise impeccable launch success rate was only marred when the launch of CRYOSAT failed in October 2005 caused by human error. Corrective measures soon led to the resumption of launches with the successful deployment of KOMPSAT-2 GOCE, SMOS and PROBA-2.

To ensure the correct functioning of all SS-19 components an extensive ground qualification test program is employed. A special revalidation procedure was developed to ensure the proper functioning of Rockot's first and second stages. This includes a yearly validation flight of an SS-19 and detailed mechanical and electrical tests to verify the booster stages are flight-worthy.

Typically, Rockot will launch a payload mass of up to two tons into a low earth orbit from Eurockot's facilities at Plesetsk Cosmodrome. This makes Rockot the natural choice for launches into such high inclination, polar and sun-synchronous orbits.

ROCKOT – Europe's Small Launcher

The Breeze-KM upper stage makes Rockot a unique small launch vehicle by comparison. It is re-ignitable and highly manoeuvrable and thus allows spacecraft to be released precisely into their required positions. Breeze-KM is a version of the Breeze-M upper stage also employed in the heavier Proton launch vehicle produced by Khrunichev. The full potential of Breeze-KM was successfully demonstrated during Eurockot's Multiple Orbit Mission in June 2003 when a total of eight satellites was released into elliptical and sunsynchronous orbits.

Eurockot employs payload adapter and separation systems of Russian as well as West European origin. Previous missions demonstrated the successful use of Khrunichev as well as EADS CASA designs which are either available off-the-shelf or as customized designs.

Next to classic LEO missions; Rockot is also able to perform earth escape and planetary missions using an additional propulsion module. An incremental product improvement of the Breeze-KM upper stage will result in a gradual increase of payload masses into classical low earth orbits. Rockot will remain available for commercial launches well into the next decade. It is Eurockot's goal to maintain its high standards by offering high quality, cost-effective and customer service-oriented launch services to the market.





